

## WHAT IS CLAIMED:

1. A motilin receptor, substantially free from receptor-associated proteins.
2. A motilin receptor according to Claim 1 which is human.
3. A motilin receptor according to Claim 2 which is MTL-R1A having the amino acid sequence SEQ.ID.NO.:3.
4. A motilin receptor according to Claim 3 having the nucleic acid sequence SEQ.ID.NO.:2.
5. A motilin receptor according to Claim 2 which is MTL-R1B having the amino acid sequence SEQ.ID.NO.:5.
6. A motilin receptor according to Claim 5 having the nucleic acid sequence SEQ.ID.NO.:4.
7. A motilin receptor according to Claim 6 which is 75E7 having the amino acid sequence SEQ.ID.NO.:7.
8. A method for determining whether a ligand is capable of binding to a motilin receptor comprising:
  - (a) transfecting test cells with an expression vector encoding motilin receptor;
  - (b) exposing the test cells to the ligand;
  - (c) measuring the amount of binding of the ligand to the motilin receptor;
  - (d) comparing the amount of binding of the ligand to the motilin receptor in the test cells with the amount of binding of the ligand to control cells that have not been transfected with the motilin receptor

where if the amount of binding of the ligand to the test cells is greater than the amount of binding of the ligand to the control cells, then the substance is capable of binding to motilin receptor.